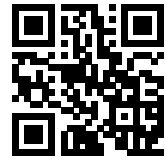


# EJ1809 | EtherCAT plug-in module, 16-channel digital input, 24 V DC, 3 ms



**i** **Product status:** Regular delivery

The EJ1809 digital input acquires binary 24 V control signals from the process level and transmits them, in an electrically isolated form, to the higher-level automation unit. The EtherCAT plug-in module contains 16 channels, whose signal state is indicated by LEDs.

Special features:

- input specification type 1/3
- no bouncing due to mechanical switches thanks to 3 ms input filter

## Product information

### Technical Data

| Technical data     | EJ1809                           |
|--------------------|----------------------------------|
| Specification      | EN 61131-2, type 1/3             |
| Number of inputs   | 16                               |
| Nominal voltage    | 24 V DC (-15 %/+20 %)            |
| "0" signal voltage | -3...+5 V (EN 61131-2, type 1/3) |
| "1" signal voltage | 11...30 V (EN 61131-2, type 3)   |
| Input current      | typ. 3 mA (EN 61131-2, type 3)   |
| Input filter       | typ. 3.0 ms                      |

|                                  |  |
|----------------------------------|--|
| Distributed clocks               | –  |
| Current consumption E-bus        | typ. 80 mA   |
| Electrical isolation             | 500 V (E-bus/field potential)                                    |
| Special features                 | standard input module with high number of channels (filter 3 ms) |
| Weight                           | approx. 30 g   |
| Operating/storage temperature    | -25...+60 °C/-40...+85 °C  |
| Relative humidity                | 95 %, no condensation  |
| EMC immunity/emission            | conforms to EN 61000-6-2/EN 61000-6-4                            |
| Vibration/shock resistance       | conforms to EN 60068-2-6/EN 60068-2-27                           |
| Protect. class/installation pos. | IP 20/see documentation  |
| Approvals/markings               | CE, UL   |

|                        |   |
|------------------------|---|
| <b>Housing data</b>    | <b>EJ-12-16pin</b>  |
| Design form            | EtherCAT I/O plug-in module   |
| Material               | polycarbonate   |
| Installation           | on signal distribution board  |
| Mechanical coding      | EJ plug-in module: signal-specific coding pins on the housing,<br>signal distribution board: holes in the printed circuit board |
| Locking                | latching lug in circuit board cut-out   |
| Connection method      | field wiring: application-specific wiring level on the signal distribution board,<br>EJ plug-in module: 2 x 20-pin socket strip |
| Dimensions (W x H x D) | 12 mm x 66 mm x 55 mm   |